

item	# req'd	Component sources & ordering details
Main board:		
"Main" PCB	1	via this website
transformer	1	JPR Electrical, 835-401 (<u>not</u> the same as Spirat'x QA3-018)
fuseholder (5 x 20 mm)	1	CPC, FF01942
fuse (100 mA) slow blow	1	RapidOnline, 26-1044
T/block, 3-way, angled	1	RapidOnline, 21-4697 (Camden Boss, CTB3008/3)
T/block 2-way, straight	1	RapidOnline, 21-1590 (Camden Boss, CTB0108/2)
Bridge rectifier	1	Spiratronix, DF3-012 (1.5A)
3.3 V voltage regulator	1	CPC, SC08293
Crystal, 16 MHz	1	Ciseco.co.uk (with 2 x 22pF caps) SKU K036
capacitor, 100 uF elect.	1	various
capacitor, 10 uF elect.	1	various
capacitor 100 nF ceramic	3	various
capacitor 22 pF ceramic	2	various
processor, Atmega 328P	1	OpenEnergyMonitor shop
op amp, LM358	1	Spiratronix, YA3-036
DIL socket, 8-pin	1	CPC, SC08116
DIL socket, 28-pin	1	OEM shop (supplied free with Atmega)
diode, 1N4007	4	various
resistor, 10K	4	various
resistor, 100K	1	various
resistor, 150R	2	various
SIL pin strip, (half of a 36-way strip)	1	Spiratronix, PC3-065 (36-way)
SIL socket 2-way	4	Spiratronix, PG3-018 (2-way)
resistor, 220R	8	various
14-way boxed header	1	RapidOnline, 19-0034
<i>extras for "RF only" option:</i>		
RFM12B, 868 MHz	1	OEM shop
SMA jack	1	CPC, CN11118
<i>extras for "RF and display" option:</i>		
DIL socket, 16-pin	2	CPC, SC08118
74HC138 demux	1	CPC, SC08958
74HC4543 7-seg driver	1	CPC, SC12752

Output board:

"output" PCB	1	via this website
triac, BTA41	1	Spiratronix FF8-460
trigger, MOC3041	1	Spiratronix FW1-480
resistor, 330R	1	various
resistor, 360R	1	various
resistor, 180R (for Uno)	1	various
resistor, 120R (for e'Tx, or RAE h/w)	1	various
DIL socket, 6-pin	1	Spiratronix, or eBay
t/block for triac (24A), 10mm pitch	1	RapidOnline, 21-4682, Camden Boss CTB2500/2
t/block for control (1A), 0.2" pitch	1	Sunsphere (eBay)
mounting kit for triac	1	RapidOnline, 38-0215 (mica), or 38-0402 (thermal pad)

Display board:

"display" PCB	1	via this website
4-digit display module	1	Spiratronix, TW3-350
40 cm ribbon cable	1	Spiratronix, WE2-010
14-way cable term (IDC)	2	RapidOnline, 19-1018
14-way boxed header, straight pins	1	RapidOnline, 19-0034
7-way SIL header	2	Spiratronix PG3-094 (25-way)

Misc Items:

Schneider enclosure (ABS)	1	local stockist, or via this website
Heatsink (undrilled)	1	ABL Components, via this website
Heatsink (drilled)	1	ABL Components, via this website
M3 x 16 mm s/screws, pan-head + loc-nuts	3	Falcon Workshop (eBay)
CT, clip-on type	1	OpenEnergyMonitor shop
CT, bobbin type	1	Assisi Electric UK (eBay)
4-way 57A connector	1	RapidOnline, 21-1682
M3 20mm pan-head plastic screws & nut	2	Boltboy (eBay)
DPST switch, circular, amber illumination	1	RapidOnline, 75-0053
16A SPST switch, red illumination	1	RapidOnline, 50-1024
SPST switch, circular, white	1	RapidOnline, 75-0063
neon indicator	1	Spiratronix, LM2-016
cable gland, 16 mm	2	RapidOnline, 04-1922
3.5mm chassis-mtg jack socket, mono	1	Majadu Ltd (eBay),
Lucar spade female	3	Maplin, HF10L
cover for Lucar male	3	Maplin, FE66W (male cover)

earth tag for 1.5 mm² cable, 3mm hole
1.5mm cable, brown, 30/0.25
1.5mm cable, green/yellow, 30/0.25
0.5mm cable, green/yellow 16/0.2
0.5mm cable, brown 16/0.2
0.5mm cable, blue 16/0.2
cable tie base, 18mm x 18mm
cable tie, 100mm
SMA/SMA lead with bulkhead fitting

1 cateringparts (eBay)
1 Farnell, 1285964
0.5 Farnell, 1285961
0.5 Farnell, 1285921
1 Spiratronix, WB4-038
1 Spiratronix, WB4-047
2 Spiratronix, WT3-012
2 Spiratronix, WQ2-029
1 ChinaRF, or via this website